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HUSCH BLACKWELL SANDERS LLP			EXAMINER	
720 OLIVE STREET			LEE, JINHEE J	
SUITE 2400				
ST. LOUIS, MO 63101			ART UNIT	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pto-sl@huschblackwell.com

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/722,630	ROBERTS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jinhee J. Lee	2175	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 25 March 2008.

2a) This action is **FINAL**.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-17 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 101***

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 10-12 have met the 101 statutory requirements (see “stored in electronic memory” for example).

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanderson (20020101448).

Re claim 1, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface in a client-server environment comprising: a user interface (UI) repository (data factory 210 for example) residing in a database accessible to a client server hardware system, where said UI repository, contains a UI element (data element 208 for example), which defines data element attributes including data type, how to display data and labels (see figure 2 for example); a screen repository (specification 209 for example) residing in the database storage device accessible to the client-server hardware system, where said screen repository

includes screen attributes, which defines the hierarchical navigational tree structure of screens for an graphical user interface (GUI) application and further defines what screen will be constructed and defines a GUI component of the screen based on the data type (workflow data, configuration data, see abstract for example); a data binding framework (content factory 213 for example) operable to bind data to the UI element and the GUI component based on data type (inherent in order to display); a (GUI) framework (controller 201c for example) operably residing at a client in the client-server hardware system, where said (GUI) framework is operable to control how data is handled and processed within the GUI component of the GUI application based on data type including binding data to the GUI component utilizing the data binding framework; and

a navigation framework (view 201b, model 201a for example) operably residing at the client, where said navigation framework controls generating and displaying of the screens within an application and further builds a navigation tree structure based on the screen attributes; and

an object oriented software application (see paragraph 0037, object-oriented implementation and XML, see paragraph 0046 for example) for generating a graphical user interface being executed in said client-server hardware system (client 201D, server 206 in figure 2 for example) having functional interfaces for accessing repositories and frameworks accessible by the client-server network (see figure 2 for example).

Re claim 2, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a security

framework (using 442 for example, inherent) operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen (see figure 4b).

Re claim 3, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a verification framework (validator 211 for example) operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 4, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface in a client-server environment comprising:

a graphical user interface (GUI) framework (201c for example) operably residing at a client server hardware system in a client-server network environment, where said GUI framework is operable to control how data is handled and processed within a GUI component of a GUI application based on a data type including binding data to the GUI component utilizing a data binding framework;

a collection of integrated repositories (210 for example) relationally inter referenced by UI elements defining the data type within their respective attribute tables operable for accessing and integrating all attribute elements relating to generating a graphical user interface;

a collection of executable object oriented routines (209 for example) being executed on the client-server hardware system (client 201D, server 206, see figure 2 for example) and operable to manipulate the GUI framework;

a collection of XML files (content 207 for example) operable to access and export data from the repositories at run time for use by the GUI application; an XML layout manager (format 212 for example) operable to define the screen layout from the collection of XML files; and a navigation framework operably residing at the client, where said navigation framework (view 201b for example) controls generating and displaying of screens within the GUI application based upon the XML lay out manager and the repository attributes accessed and exported by the collection of XML files and further builds the navigation tree structure based on the repository attributes.

Re claim 5, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a security framework (using 442, inherent) operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen (see figure 4b).

Re claim 6, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a verification framework (validator 211 for example) operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 7, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface in a client-server environment comprising:

a screen repository (209 for example) residing in a database storage device accessible by a client-server hardware system, where said screen repository includes screen attributes, which defines the hierarchical navigational tree structure of screens for an graphical user interface (GUI) application and further defines what screen will be constructed and defines a GUI components of the screen;

a user interface (UI) repository (210 for example) residing in the database storage device accessible to the client server hardware system, where said UI repository, contains a UI element, which defines data element attributes including data type, how to display data and labels; and

a data binding framework (213 for example) operable to bind data to the UI element and the GUI component based on the data type defined in the UI repository; and

an object oriented software application (see paragraph 0037 object oriented implementation and XML in paragraph 0046 for example) for generating a graphical user interface being executed in said client-server hardware system (client 201D, server 206, see figure 2 for example) having functional interfaces for accessing repositories and frameworks accessible by the client-server hardware system (see figure 2 for example).

Re claim 8, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a security framework (using 442, inherent) operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen (see figure 4b for example).

Re claim 9, Sanderson discloses an integrated system of frameworks and data repositories for generating a graphical user interface, further comprising: a verification framework (211 for example) operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 10, Sanderson discloses an integrated system tool comprising:  
A computer executable administrative computing tool application electronically stored in electronic memory of a computer (server 206 for example) where said administrative computing tool includes, a navigation tool (201b for example) for building a navigation framework adapted to control the generation of screens for a graphical user interface (GUI) application and further adapted to define the hierarchical relationship of the screens, a screen repository tool (209 for example) operable to build a repository of screen attributes to establish a hierarchical screen navigation structure and a corresponding Java class construct to be executed and a GUI component, a user interface repository tool (210 for example) operable to build a user interface repository having user interface attribute tables of user interface elements corresponding to the

GUI component, and a data binding framework tool (213 for example) operable to build a data binding framework operable to bind data from an appropriate data set to the user interface element and the GUI component,

Where said computer is operable to generate and display a graphical user interface utilizing said framework and said repository tools (see figure 2, items 201a and b for example).

Note that in regards to "in a test environment", it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987).

Re claim 11, Sanderson discloses an integrated system tool, where the administrator computing tool further comprises: a security framework tool (using 442 for example) operable to build a security framework operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen (see figure 4b), where said computer is operable to generate and display a graphical user interface utilizing said framework and said repository tools (see figure 2, items 201a and b for example), additionally including said security framework tool..

Note that in regards to "in a test environment", it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987).

Re claim 12, Sanderson discloses an integrated system tool, where the administrator computing tool further comprises: a verification framework tool (211 for example) operable to build a verification framework operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message, where said computer is operable to generate and display a graphical user interface utilizing said framework and said repository tools (see figure 2, items 201a and b for example), additionally including said verification framework tool..

Note that in regards to "in a test environment", it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647 (1987).

. Re claim 13, Sanderson discloses a method of generating a graphical user interface utilizing an integrated system of frameworks and data repositories comprising the steps of: Receiving a screen (201d to 207 for example) request to a graphical user interface (GUI) application based on a user input; Accessing and constructing (from 201b to 201a for example) a basic screen and screen attributes from a screen repository corresponding to the user input as determined by a navigation framework; Binding GUI components (create instance in 210 for example) defined by the screen attributes with user interface elements from a UI repository based on a data type defined in the UI repository (see figure 2 for example); Binding data to the GUI

components and UI elements based on the data type (format 212 for example); and  
Displaying the screen on a display system (201b to 201a for example).

Re claim 14, Sanderson discloses a method of generating a graphical user interface, further comprising: filtering a screen (with 442 for example) with a security framework operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen.

Re claim 15, Sanderson discloses a method of generating a graphical user interface as recited in claim 13, further comprising: displaying an error message (using 211 for example) with a verification framework operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 16, Sanderson discloses a method for building an integrated system of frameworks and data repositories for generating a graphical user interface comprising the steps of: building a graphical user interface (GUI) framework (201c for example) operable to reside at a client in a client-server network environment, where said GUI framework is operable to control how data is handled and processed within a GUI component of a GUI application including binding data to the GUI component utilizing a data binding framework; and

building a collection (with 210 for example) of integrated repositories to be relationally inter referenced by UI element data type within their respective attribute tables operable for accessing and integrating all attribute elements relating to

generating a graphical user interface; and displaying a graphical user interface (see figure 2 and abstract for example).

Re claims 17, Sanderson discloses a method for building an integrated system further comprising the steps of: building a verification framework (with 211 for example) operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

***Response to Arguments***

4. Applicant's arguments filed 3/25/08 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to teach "integrating frameworks and repositories, where these frameworks and repositories revolve around data types", examiner disagree. Figure 2 of Sanderson clearly shows repositories and framework integrated to work together, for example instantiating, holding and translating, displaying, etc.

In response to applicant's argument that the references fail to teach regarding the data element, and that the data elements are in specifications in Sanderson, examiner disagrees. Figure 2 clearly shows that Data factory 210 of Sanderson contains data from Specification as well as Data element. Data element 208 also contains data from specification. Content also contains data from data element, therefore, Sanderson contains integrated system based on data type as claimed.

Furthermore, UI repository with UI element can be interpreted as data factory 210, which has data elements 208 for the user interface (UI). Data elements for user interface (UI) meet the limitation of “UI element”. A data can be a user interface element. Examiner disagrees with the applicant’s arguments.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., “can be called by an application for creating an active screen that is consistent with all other screen formats and efficiently utilizes other frameworks to generate the graphical presentation” and “the Navigation Framework provides efficient and consistent navigation through an application.”) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Also note that the examination includes giving each term in the claim its broadest reasonable interpretation in determining patentability of the claim.

In response to applicant's arguments that the prior art does not disclose “a data binding framework operable to build a data binding framework operable to bind data from an appropriate data set to the user interface element and the GUI component, examiner disagrees. Item 213 of Sanderson discloses ContentFactory where the content of the user interface is created. Figure 2 shows item 213 with information from content (item 207); content (207) obtains information from Data element (208) which is contained in Data Factory 210 for example. Figure 2 further shows, instantiating and

holding and translating between these elements. This is providing data binding framework operable to bind data to the UI element and the GUI component as claimed.

In response to applicant's arguments that the prior art does not disclose "navigation framework", examiner disagrees. Claim states that "said navigation framework controls generating and displaying of the screens within an application" which is the function of item 204B View in prior art. As the applicant has pointed out, paragraph 0043 of Sanderson teaches that "different view components can present the core data of the model component in different ways." This teaches that the view and model 201 a and b controls generating and displaying on the screens as claimed. Further, figure 1 shows in the view "navigation tree structure based on the screen attributes.

### ***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinhee J. Lee whose telephone number is 571-272-1977. The examiner can normally be reached on M-F at 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Bashore can be reached on 571-272-2100 ext. 75. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jinhee J Lee/  
Primary Examiner, Art Unit 2175

jjl